## I claim:

- 1. A roofing or siding system having an average resulting reflectivity of at least about 45% comprising an adhering surface on which a plurality of granules are at least partially secured thereto, said granules having an average reflectivity of at least about 55% and an average hardness of over about 3 Moh's.
- 2. The roofing and/or siding system as defined in claim 1, wherein said granules have an average reflectivity of about 55-99.9%, said roofing or siding system having an average resulting reflectivity of about 45-95%.
- 3. The roofing and/or siding system as defined in claim 2, wherein said granules have an average reflectivity of about 60-99.9%, said roofing or siding system having an average resulting reflectivity of about 50-95%.
- 4. The roofing and/or siding system as defined in claim 1, wherein said granules have an average hardness of at least about 4 Moh's.
- 5. The roofing and/or siding system as defined in claim 3, wherein said granules have an average hardness of at least about 4 Moh's.
- 6. The roofing and/or siding system as defined in claim 3, wherein said granules have an average opacity of at least about 55%.
- 7. The roofing and/or siding system as defined in claim 6, wherein said granules have an average opacity of at least about 60%.
- 8. The roofing and/or siding system as defined in claim 5, wherein said granules have an average opacity of at least about 60%.

- 9. The roofing and/or siding system as defined in claim 1, wherein said granules have an average porosity of less than about 20%.
- 10. The roofing and/or siding system as defined in claim 9, wherein said granules have an average porosity of about 0-15%.
- 11. The roofing and/or siding system as defined in claim 8, wherein said granules have an average porosity of about 0-15%.
- 12. The roofing and/or siding system as defined in claim 1, wherein at least a plurality of said granules include aluminum.
- 13. The roofing and/or siding system as defined in claim 12, wherein at least a plurality of said granules include a majority of aluminum.
- 14. The roofing and/or siding system as defined in claim 11, wherein at least a plurality of said granules include a majority of aluminum.
- 15. The roofing and/or siding system as defined in claim 1, wherein at least two particle size distributions of granules are at least partially embedded in said adhering surface.
- 16. The roofing and/or siding system as defined in claim 14, wherein at least two particle size distributions of granules are at least partially embedded in said adhering surface.
- 17. The roofing and/or siding system as defined in claim 1, wherein said granules cover over about 95% of said adhering surface.

- 18. The roofing and/or siding system as defined in claim 17, wherein said granules cover over about 98% of said adhering surface.
- 19. The roofing and/or siding system as defined in claim 16, wherein said granules cover over 98% of said adhering surface.
- 20. The roofing and/or siding system as defined in claim 1, wherein said adhering surface includes an asphalt and/or bitumen surface, a plurality of said granules being at least partially embedded in said asphalt and/or bitumen surface.
- 21. The roofing and/or siding system as defined in claim 19, wherein said adhering surface includes an asphalt and/or bitumen surface, a plurality of said granules being at least partially embedded in said asphalt and/or bitumen surface.
- 22. The roofing and/or siding system as defined in claim 1, wherein said adhering surface includes a foam surface, a plurality of said granules being at least partially embedded in said foam surface.
- 23. The roofing and/or siding system as defined in claim 19, wherein said adhering surface includes a foam surface, a plurality of said granules being at least partially embedded in said foam surface.
- 24. The roofing and/or siding system as defined in claim 1, wherein said adhering surface includes an adhesive surface.
- 25. The roofing and/or siding system as defined in claim 19, wherein said adhering surface includes an adhesive surface.

26. A highly reflective granule for use on a roofing and/or siding system to at least partially coat and provide a highly reflective, weather resistant surface coating on the roofing and/or siding system, said granule having a reflectivity of at least about 55%, a hardness of over about 3 Moh's, a porosity of less than about 20%, an opacity of at least about 55%, and an aluminum content of at least about 10 weight percent.

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- 27. The highly reflective granule as defined in claim 26, wherein said reflectivity is about 60-99%.
- 28. The highly reflective granule as defined in claim 26, wherein said hardness is at least about 4 Moh's.
- 29. The highly reflective granule as defined in claim 27, wherein said hardness is at least about 4 Moh's.
- 30. The highly reflective granule as defined in claim 26, wherein said opacity is at least about 60%.
- 31. The highly reflective granule as defined in claim 29, wherein said opacity is at least about 60%.
- 32. The highly reflective granule as defined in claim 26, wherein said porosity is about 0-15%.
- 33. The highly reflective granule as defined in claim 31, wherein said porosity is about 0-15%.

- 34. The highly reflective granule as defined in claim 26, including a majority of aluminum.
- 35. The highly reflective granule as defined in claim 33, including a majority of aluminum.
- 36. The highly reflective granule as defined in claim 26, including silicon, and a ratio of said aluminum content to said silicon content is about 1.1-100000:1.
- 37. The highly reflective granule as defined in claim 36, including silicon, and a ratio of said aluminum content to said silicon content is about 2-50000:1.
- 38. The highly reflective granule as defined in claim 35, including silicon, and a ratio of said aluminum content to said silicon content is about 2-50000:1.
- 39. The highly reflective granule as defined in claim 26, wherein said surface includes an asphalt and/or bitumen surface.
- 40. The highly reflective granule as defined in claim 38, wherein said surface includes an asphalt and/or bitumen surface.
- 41. The highly reflective granule as defined in claim 26, wherein said surface includes a foam surface.
- 42. The highly reflective granule as defined in claim 38, wherein said surface includes a foam surface.

- 43. The highly reflective granule as defined in claim 26, wherein said surface includes an adhesive surface.
- 44. The highly reflective granule as defined in claim 38, wherein said surface includes an adhesive surface.
- 45. A method of coating highly reflective granules on an adhering surface of roofing or siding to obtain an average resulting reflectivity of at least about 45% comprising:
- a) selecting a plurality of highly reflective granules having an average reflectivity of at least about 55% and an average hardness of over about 3 Moh's; and,
- b) applying said granules substantially uniformly on said adhering surface until over about 95% of said adhering surface is covered by said granules.

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- 46. The method as defined in claim 45, including the use of at least two different sized of granules, a first size of granules having an average particle size that is greater than an average particle size of a second size of granules, said first size of granules being applied to said adhering surface prior to said second size of said granules.
- 47. The method as defined in claim 45, wherein a size ratio of said first size of granules having an average particle size to an average particle size of a second size of granules is at least about 1.3:1.
- 48. The method as defined in claim 45, wherein said adhering surface includes asphalt and/or bitumen, said adhering surface being continuously moved as said granules are applied to said adhering surface.

- 48. The method as defined in claim 47, wherein said adhering surface includes asphalt and/or bitumen, said adhering surface being continuously moved as said granules are applied to said adhering surface.
- 49. The method as defined in claim 45, wherein said granules cover over about 98% of said adhering surface.
- 50. The method as defined in claim 48, wherein said granules cover over about 98% of said adhering surface.
- 51. A roof system comprising a roof substrate at least partially coated with granules to obtain an average resulting reflectivity of at least about 45%, said granules having an average reflectivity of at least about 55% and an average hardness of over about 3 Moh's, said granules covering over about 95% of said roof substrate.
- 52. The roof system as defined in claim 51, including the use of at least two different sized of granules, a first size of granules having an average particle size that is greater than an average particle size of a second size of granules.
- 53. The roof system as defined in claim 52, wherein a size ratio of said first size of granules having an average particle size to an average particle size of a second size of granules is at least about 1.3:1.
- 54. The roof system as defined in claim 51, wherein said granules cover over about 98% of said adhering surface.
- 55. The roof system as defined in claim 53, wherein said granules cover over about 98% of said adhering surface.